

REBUILD AMERICA PROGRAM ACTION PLAN
Hawaiian Electric Company - Energy Efficiency Partnerships

EXECUTIVE SUMMARY

PRIORITIES, GOALS, AND ORGANIZATION

Introduction

Hawaiian Electric Company (HECO) has been an active partner with Rebuild America (and Rebuild Hawaii) since 1997 and has formed Rebuild Partnerships with numerous government agencies, private businesses, and educational institutions to identify and implement energy efficiency projects in the state of Hawaii. This plan will discuss some of the highlights of completed projects, provide a status report on on-going projects and provide a description and timeline for future projects.

VISION STATEMENT

The overall vision statement of HECO, and its Rebuild partners is to look for complementary goals and objectives that will improve the energy efficiency of Hawaii's commercial buildings, increase the awareness of the need for reducing energy costs, defer the need for additional electrical generation, and reduce Hawaii's importation of fossil fuels.

In addition to this overall vision many of the partnerships have additional and more specific goals and visions which are discussed in the summary of these past, current, and future partnerships.

PROGRAM GOALS

1. Maximize the cost effectiveness of energy efficiency in Hawaii by working through Rebuild Partnerships to take advantage of technical abilities, sources of funding, and to avoid duplication of efforts.
2. Make Hawaii an example of energy efficiency in both the United States and the Pacific Rim.

PARTNERSHIP PROJECTS

Accomplishments to Date

Energy Solutions for Small Businesses 1997-1998

This project was developed and implemented in partnership with the Hawaii State Department of Business, Economic Development and Tourism's Energy Division (DBEDT) and the United States Department of Energy (USDOE). Energy Solutions for Small Business was a pilot program designed to bundle lighting retrofit costs to encourage small businesses to retrofit to T8 lighting with electronic ballasts.

Smart Schools Oahu-1 2000 - 2001

Energy Smart Schools Oahu – teach high school students about energy, lighting audits and marketing. Students audited their schools and neighboring small businesses. Partnered with Department of Education (DOE), Department of Accounting & General Services (DAGS), Strategic Energy Innovations and Energy Conservation Hawaii.

Green Offices 2000

Helped facilitate the completion of the Green Office Exhibit created by Steve Meder at University of Hawaii.

Continuing Projects

HECO's projects have not ended after the pilot programs are completed.

- HECO continues the Energy Solutions for Small Business program and is in its 4th successful year. From December of 1998 until June 2001, the small business retrofit program has totaled approximately:
 - 84 small business retrofits
 - 1,999,000 kWh savings
 - 93 kW savings
 - \$61,000 in HECO rebates
- The utility continues to work with DOE and DAGS administration to further their discovery process behind lighting retrofits in all the K-12 public schools on Oahu and Maui.
- We send representatives to the Rebuild Peer Exchanges and National Forums to represent the strong Hawaii consortium.

Current Projects

Smart Schools Maui

Energy Smart Schools Maui – Performed benchmarking and lighting audits on 32 public schools (K-12) on the island of Maui. Reporting on feasibility of retrofit.

Potential Future Projects

Energy Camp

Similar to Smart Schools except focus on straight-lining the education process in a compacted time period; focus more on school lighting audits and less on small business audits. Time frame: 2001-2002

Smart Schools Oahu-2

Repeat previous program with modifications. Time frame: 2002-2003

Design Criteria for Energy Efficient Commercial Buildings

In partnership with the University of Hawaii School of Architecture, design criteria will be developed and compiled for future University of Hawaii new construction. This will be expanded to include other types of commercial facilities. Time frame: 2001-2002

Coconut Island Demonstration Project

In partnership with UH Hawaii Institute of Marine Biology and LBNL, a plan will be developed to improve energy efficiency and sustainability for Coconut Island facilities. Time frame: 2001-2002

Center for Energy Efficiency

In partnership with University of Hawaii School of Architecture and other industry partners, a demonstration facility to showcase and train in energy efficient technologies will be pursued. Time frame: 2002-2005

Priorities, Goals and Organization

Priorities: Our priority is to develop partnerships to identify and implement programs that promote energy efficient electrical consumption and to increase the energy efficiency of Hawaii's schools, private businesses, and governmental agencies.

Goal: Our future goal is to assist Hawaiian Electric Company's customers to reduce their energy costs and to decrease Hawaii's importation of fossil fuels while deferring the need for additional generation.

Partner and Organization: As a partner in Rebuild America, our objective is to help administer the implementation of projects that other partners cannot orchestrate on their own due to limited financial or personnel resources.

HECO will take the hands-on management approach to motivate the program using other Rebuild partners to handle the daily implementation.

Current Partners

To date HECO has worked with the following Rebuild Partners.

State of Hawaii Department of Business, Economic Development and Tourism's Energy Branch (DBEDT)

United States Department of Energy (USDOE)

State of Hawaii Department Administration and General Services (DAGS)

State of Hawaii Department of Education (DOE)

Maui Community College (MCC)

University of Hawaii (UH)

Energy Conservation Hawaii (ECH)

Strategic Energy Innovations (SEI)

Monitoring, Evaluation and Reporting

Performance of HECO's Rebuild Partnerships is tracked using a number of tools. Measures installed under HECO's Energy Solutions for Small Businesses are tracked using HECO Demand Side Management Information System (DSMIS). Tracking of the activities for the Energy Smart Schools project are provided in regular reports from the program manager and/or the partners.

Many of the measures implemented through HECO's Rebuild America Partnerships are evaluated in the scope of HECO's Demand Side Programs. Other evaluation work is performed by HECO's Research and Evaluation Division. The findings of these evaluations, where appropriate, are included in the project reports.